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Architecture for IP mobility

Khalil, M. Pillai, K.
IP Mobility Group, Nortel Networks, Richardson, TX , USA;

This paper appears in: **Emerging Technologies Symposium: Broadband, Internet Access, 2000 IEEE**

Meeting Date: 04/10/2000 - 04/11/2000
Publication Date: 10-11 April 2000
Location: Richardson, TX USA
On page(s): 5 pp.
Reference Cited: 11
Number of Pages: 212
Inspec Accession Number: 6965060

Abstract:
The Mobile IP protocol specifies an IP mobility solution for both IPv4 and IPv6 introduces the concept of a home agent (HA) and a foreign agent (FA) which essential pieces in the architecture. The main goal is to achieve seamless mol mobile node moves from its home subnet to any other point of attachment. M however, has limitations with routing, handoff, and security. The IP mobility (architecture proposed in this paper is a high level is derived from the Mobile I compensates for its limitations. This architecture introduces the concept of a s mobility manager (SMM) in the serving network and a home mobility manage the home network of the mobile user, among other additional components. Tl framework provides security through IPSec along both the data and the contr also provides a mechanism for improving handoffs. IPM provides seamless ap layer mobility for upper layer protocols such as **SIP** (Session Initiation Protoc a signaling protocol for controlling sessions such as Internet multimedia confe Internet telephone calls and multimedia distribution

Index Terms:
Internet land mobile radio multimedia communication software agents software arcl telecommunication network management telecommunication network routing telecom security telecommunication signalling transport protocols IP mobility architecture IP IPv6 Internet multimedia conferences Internet telephone calls Mobile IP protocol SI Initiation Protocol foreign agent handoff home agent home mobility manager hom home subnet mobile node multimedia distribution routing seamless application laye

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An architecture of distributed media servers for sup guaranteed QoS and media indexing

Feng Cao Smith, J. Takahashi, K.
Cisco Syst. Inc., San Jose, CA, USA ;

This paper appears in: **Multimedia Computing and Systems, 1999. IEEE International Conference on**

Meeting Date: 06/07/1999 - 06/11/1999
Publication Date: 7-11 June 1999
Location: Florence Italy
On page(s): 1 - 5 vol.2
Volume: 2
Reference Cited: 6
Number of Pages: 2 vol. (xlix+909+1127)
Inspec Accession Number: 6331285

Abstract:
In a distributed multimedia system, multimedia sessions may get involved wi media servers for the retrieval of the media data or the creation of new multi documents. To provide the guaranteed Quality of Service (QoS) to real-time a such as continuous media transfers, the system resources in the media serve reserved to avoid contention during execution time. Media indexing is also ne support searching the media data in such a distributed environment and to pr necessary information about the usage of system resources for delivering the data. Due to the overhead, a centralized approach of scheduling all the reque searching all the media data from only one agent is not efficient, and not scal study, we propose a new architecture, dividing the media servers into multipl the right size. Within each group, there is a registration agent and an index a take care of the resource reservation, membership management, media inde searching, and load balancing. We demonstrate how to provide the guarantee scheduling the requests among the multiple groups, and show the collaborati the registration agents and the index agents inside and outside a group. The media servers can fit in this architecture by the updates of membership statu registration agents. The new IETF drafts such as **SIP**, RTSP and RTP are emb this architecture to support the general multiparty multimedia applications fo media streams

Index Terms:

database indexing distributed processing multimedia computing multimedia servers service real-time systems resource allocation scheduling IETF Quality of Service approach continuous media transfers distributed media servers distributed multimed execution time index agent load balancing media indexing membership managem media servers multiparty multimedia applications multiple media servers real-time a registration agent resource reservation scheduling searching

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VoIP in applications for wireless access

Kanter, T. Olrog, C.
Ericsson Radio Syst. AB, Stockholm, Sweden;

This paper appears in: **Local and Metropolitan Area Networks, 1999. Sel Papers. 10th IEEE Workshop on**

Meeting Date: 11/21/1999 - 11/24/1999
Publication Date: 21-24 Nov. 1999
Location: Sydney, NSW Australia
On page(s): 122 - 125
Reference Cited: 6
Number of Pages: v+141
Inspec Accession Number: 7037038

Abstract:
Voice over IP (or VoIP) is a common term to refer to the different protocols th to transport realtime voice and video and the necessary signaling by means o Internet Protocol (IP). H.323 is an ITU-T standard for real-time voice and vide communication over packet networks. During the past two years it has becom standard on the Internet for VoIP. Another relatively recent alternative examp (Session Initiation Protocol) for establishing multimedia sessions, that has be as an RFC by the IETF. The cost to transmit digital information end-to-end is dramatically, while there has been a tremendous increase in the available bar only has this been true in backbone networks, it has be-come the trend in acc networks for both fixed and wireless access. The price/performance of end-us electronics is dropping while, at the same time, there has been a tremendous computational power. As far as personal communication and mobility is conce are in the position to create new applications and services that go far beyond telephony systems have been concerned with and able to accomplish. One of contributing factors is the Internet Protocol, which allows these new applicatic benefit from the fact that end-user devices are now able to use multiple servi events over a single access. The result is that we are now able to build new ir services, which can combine both voice and data simultaneously

Index Terms:
Internet telephony protocols radio access networks standards H.323 Internet Prot Initiation Protocol VoIP interactive services multimedia sessions wireless access

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... 194.234 NNTP-Posting-Date: Sat, 15 Aug 1998 18:42:52 PDT Organization: **@Home Network** Super Seed! ... ypq cfnl ala vhoh uj ubk yddi xlg alyk uwge rb yrdt **sip** oh spe ...
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muc.lists.ietf - Nov 26, 1997 by agenda@ns.ietf.org - View Thread (2 articles)

Technical objections -- Mobility

... used for the Mobile-Home Authentication.) Although my early drafts (for **SIP** and Mobile ... MUST be a router between the Internet and the stub **home network**, and only ...
info.ietf - Mar 20, 1996 by William Allen Simpson - View Thread (8 articles)

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... Sep 1998 06:36:08 GMT From: mykkhal@bigfoot.com (Mykkhal) Organization: **@Home Network** To: alt ... reports from all over the ship." The captain stopped to **sip** at her ...
alt.startrek.creative.erotica.moderated - Sep 10, 1998 by Mykkhal - View Thread (1 article)

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... accessing the web outside of the company servers and not even through **SIP** / EL ... PST) NNTP-Posting-Date: Wed, 29 Mar 2000 18:04:11 PST Organization: **@Home**

Network
alt.cellular.sprintpcs - Apr 3, 2000 by Bob Smith - View Thread (90 articles)

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... 1998 06:36:07 GMT From: mykkhal@bigfoot.com (Mykkhal) Organization: **@Home Network** To: alt ... Captain." "Have a seat, Ensign." He watched her take a **sip** of coffee ...
alt.startrek.creative.erotica.moderated - Sep 10, 1998 by Mykkhal - View Thread (1 article)

Re: Proof that Daniella Bryenton never were censored, or blocked ...
... Organization: **@Home Network**. ... Host: 216.154.5.102 ===== Date: Wed, 01 Nov 2000 23:59:30 GMT Message-ID: <8tqaot$**sip**$1@nnrp1 ...
alt.religion.scientology - Nov 11, 2000 by ©Anti-Cult® - www.users.wineasy.se/noname/ - View Thread (8 articles)

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